

Setup Manual

DuraVision® MDF4601WT

Touch Panel Color LCD Monitor

Important

Please read this “Setup Manual”, and “User’s Manual” (separate volume) carefully to familiarize yourself with safe and effective usage. Please retain this manual for future reference.

-
- For monitor adjustment and settings, refer to the “User’s Manual”.
 - For the latest product information including the “Setup Manual”, refer to our web site :
<http://www.eizoglobal.com>
-



SAFETY SYMBOLS

This manual and this product use the safety symbols below. They denote critical information. Please read them carefully.

	Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.
	Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.
	Indicates an attention to be required.
	Indicates a prohibited action.
	Indicates a mandatory action that must be followed.

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PRECAUTIONS

IMPORTANT

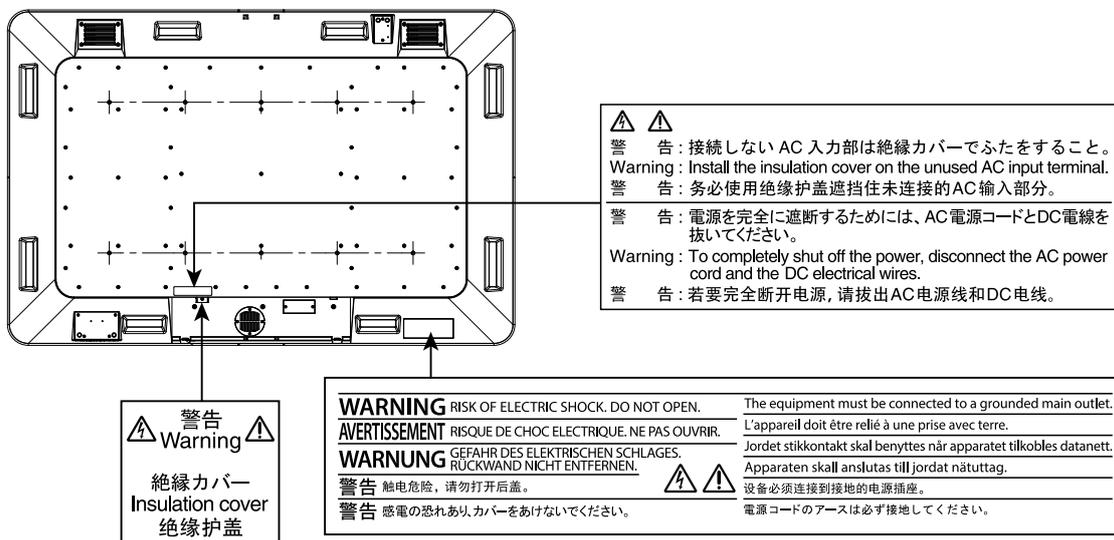
- This product is intended for applications such as nautical chart display systems, ship radar displays, and ship engine monitoring.

This product is not developed for applications which would require higher reliability, and safety such as those listed below.

- Safety devices (Disaster prevention system, security control system, etc.)
- Equipment with direct effect on human life (Life support systems, Medical equipment or devices used in the operating room, etc.)
- Nuclear energy control devices (Nuclear energy control systems, security control systems of nuclear facilities, etc.)

- To ensure personal safety and proper maintenance, please read carefully this section and the caution statements on the monitor.

Location of the Caution Statements



WARNING

If the unit begins to emit smoke, smells like something is burning, or makes strange noises, disconnect all power connections immediately and contact your local EIZO representative for advice.

Attempting to use a malfunctioning unit may result in fire, electric shock, or equipment damage.

Do not open the cabinet or modify the unit.

Opening the cabinet or modifying the unit may result in fire, electric shock, or burn.



Refer all servicing to qualified service personnel.

Do not attempt to service this product yourself as opening or removing covers may result in fire, electric shock, or equipment damage.

WARNING

Keep small objects or liquids away from the unit.

Small objects accidentally falling through the ventilation slots into the cabinet or spillage into the cabinet may result in fire, electric shock, or equipment damage. If an object or liquid falls/spills into the cabinet, block the power supply immediately. Have the unit checked by a qualified service engineer before using it again.



Use the unit in an appropriate location.

Not doing so may result in fire, electric shock, or equipment damage.

- Do not place outdoors.
- Do not place in a location where it may be affected by strong vibration or shocks.
- Do not place in a dusty or humid environment.
- Do not place in a location where water is splashed on the screen (bathroom, kitchen, etc.).
- Do not place in a location where the steam comes directly on the screen.
- Do not place near heat generating devices or a humidifier
- Do not place in a location where the product is subject to direct sunlight.
- Do not place in an inflammable gas environment.
- Do not place in environments with corrosive gases (such as sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, and ozone).
- Do not place in environments with dust, components that accelerate corrosion in the atmosphere (such as sodium chloride and sulfur), conductive metals, and so on.



Install the monitor so that users are unable to touch the power input terminal on the rear of the monitor.

Touching the power input terminal may result in electric shock.

Apply insulation protection to the power input terminal according to the applicable standards for finished products after enclosure installation.

Use the unit within the rated voltage range.

Not doing so may result in fire, electric shock, or equipment damage.

Power supply: AC AC100-240 V, 50 / 60 Hz
DC DC+24 V

If using the AC power connector, make sure the power cord meets the following requirements.

This product does not include a power cord. Please prepare separately a power cord which meets the requirements.

* The power cord must be compliance with the mandatory standards of the country and region in which this product is to be used.

- For Europe: The power cord set has rated value of at least AC250 V~ 10 A and has cord type H05VV-F, GTCE-3, 0.75 mm².
- For USA: The power cord set has rated value of at least AC125 V~ 10 A and has cord type SVT, 3/18AWG (0.75 mm²).
- For Japan: The power cord set has rated value of at least AC125 V~ 7 A and has cord type VCTF, 0.75 mm².
- For China: The power cord set has rated value of at least AC250 V~ 10 A and has cord type “配 60227 IEC53 3×1 平方毫米”

The equipment must be connected to a grounded main outlet.

Failure to do so may result in fire or electric shock.



If using the DC power terminal block, connect it securely.

Accidental disconnection of the terminal may result in fire, electric shock, or equipment damage.

⚠ WARNING**Use the correct voltage.**

- The unit is designed for use with a specific voltage only. Connection to polarities and voltages other than those specified on the monitor or in this User's Manual may cause fire, electric shock, or equipment damage.
- Do not overload your power circuit, as this may result in fire or electric shock.

Only supply power after completing all power connections.

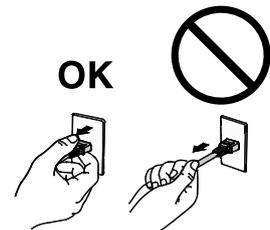
Making connections with power supplied may result in electric shock.

If using the DC power terminal block, do not touch the terminal block while it is electrified.

Touching the terminal block in this state may result in electric shock.

**To disconnect the power cord, grasp the plug firmly and pull.**

Tugging on the cord may damage and result in fire or electric shock.

**To remove the DC power terminal block, grasp the terminal block firmly and pull.**

Tugging on the wiring may damage it and may result in fire or electric shock.

Handle the power cord with care.

- Do not place the cord underneath the unit or other heavy objects.
- Do not pull on or tie the cord.

If the power cord becomes damaged, stop using it. Use of a damaged cord may result in fire or electric shock.

**Handle the fuses with care.**

- When replacing a fuse, be sure to unplug the plug from the power outlet in advance. Otherwise, an electrical shock may result.
- Never use a fuse outside the rating. Doing so may result in a fire or malfunction.

Handle the batteries for the stylus (touch pen) with care.

Not doing so may result in battery explosion, liquid leakage, or burns.

- Do not disassemble, heat, short-circuit, or immerse the provided batteries in water.
- Install/change batteries in a correct way.
- When replacing batteries, use ones of the same type and model.
- Insert batteries with correct direction of the plus (+) and minus (-) sides.
- Do not use the battery with coating damaged.
- Dispose of your battery in a designated disposal area.

 **WARNING**

Do not touch a damaged LCD panel directly with bare hands.

The liquid crystal that may leak from the panel is poisonous if it enters the eyes or mouth. If any part of the skin or body comes in direct contact with the panel, please wash thoroughly. If some physical symptoms result, please consult your doctor.



Periodically check the tightening of screws.

If screws are loose, the monitor may detach and cause injury or equipment damage.

 **CAUTION**

Handle with care when carrying the unit.

Disconnect the power cord and cables when moving the unit. Moving the unit with the cord attached is dangerous. It may result in injury.

Unpacking and transporting of this product should be carried out by four or more people.

As this product is heavy, always ensure that it is unpacked and carried by four or more people. Dropping the unit may result in injury or equipment damage.

Do not get on the monitor, or place any heavy objects on it.

Doing so may cause a person to fall or the glass to be damaged, resulting in personal injury. In addition, the product may also malfunction.



Do not block the ventilation slots on the cabinet.

- Do not place any objects on the ventilation slots.
- Do not install the unit in a closed space.
- Do not use the unit upside down.

Blocking the ventilation slots prevents proper airflow and may result in fire, electric shock, or equipment damage.



Do not touch the plug with wet hands.

Doing so may result in electrical shock.



Keep the following items away from the stylus holder.

- Magnetic recording media such as magnetic cards, prepaid cards and tickets
- Electronic and communication devices such as speakers, CD/DVD players and cell phones

This stylus uses magnets. The magnetic forces may damage their data or hamper the normal operation of such devices.



Periodically clean the area around the plug.

Dust, water, or oil on the plug may result in fire.

Block the power supply to the unit before cleaning it.

Cleaning the unit while the power is being supplied may result in electric shock.

CONTENTS

PRECAUTIONS	3
CONTENTS	7
Chapter 1 Introduction.....	8
1-1. Package Contents.....	8
1-2. Controls and Functions	8
● Front view / Rear view	8
● Side view	9
Chapter 2 Installation / Connection.....	11
2-1. Installation.....	11
● Installation examples.....	11
● Installation condition	12
● Checking strength of the installation location ...	14
● Securing the installation environment.....	14
● Installing a fitting on the monitor main unit	14
● Outline Dimensions	15
2-2. Connection	16
2-3. Displaying the Screen	20
2-4. ECDIS Setup	22
2-5. Turning Power Off.....	22
Chapter 3 Touch Panel Settings	23
3-1. Types of Touch Panel Drivers.....	23
3-2. Using Windows Standard Driver.....	23
3-3. Using DMT-DD	26
3-4. Enabling or Disabling Touch Panel Operation	26
3-5. How to Use the Stylus (Touch Pen)	27
● Turning the power on	27
● Replacing the battery	27
● Checking operation	28
● Replacing the rubber tip.....	28
● About the stylus holder	29
Chapter 4 Troubleshooting.....	30
4-1. No Picture	30
4-2. Touch Panel Problems	31
Appendix.....	33

Chapter 1 Introduction

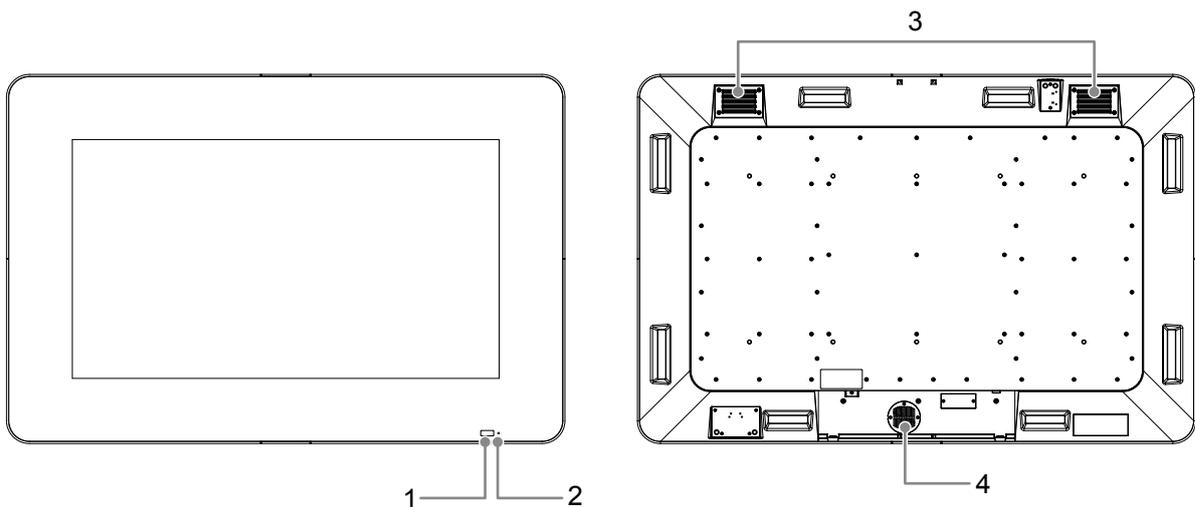
1-1. Package Contents

Check that all the following items are included in the packaging box. If any items are missing, contact your local EIZO representative.

- Monitor main unit
- EIZO LCD Utility Disk (CD-ROM)
 - DMT-DD, Touch Panel Driver
 - TPOffset, software used to adjust the sensitivity of the touch panel
 - Monitor User's Manual
 - DMT-DD User's Manual
 - TPOffset User's Manual
 - Outline Dimensions
- Setup Manual (this manual)
- Stylus (touch pen)
- AAA alkaline battery for stylus (x 1)
- Rubber tip for stylus (x 3)
- Stylus holder
- Cleaning cloth

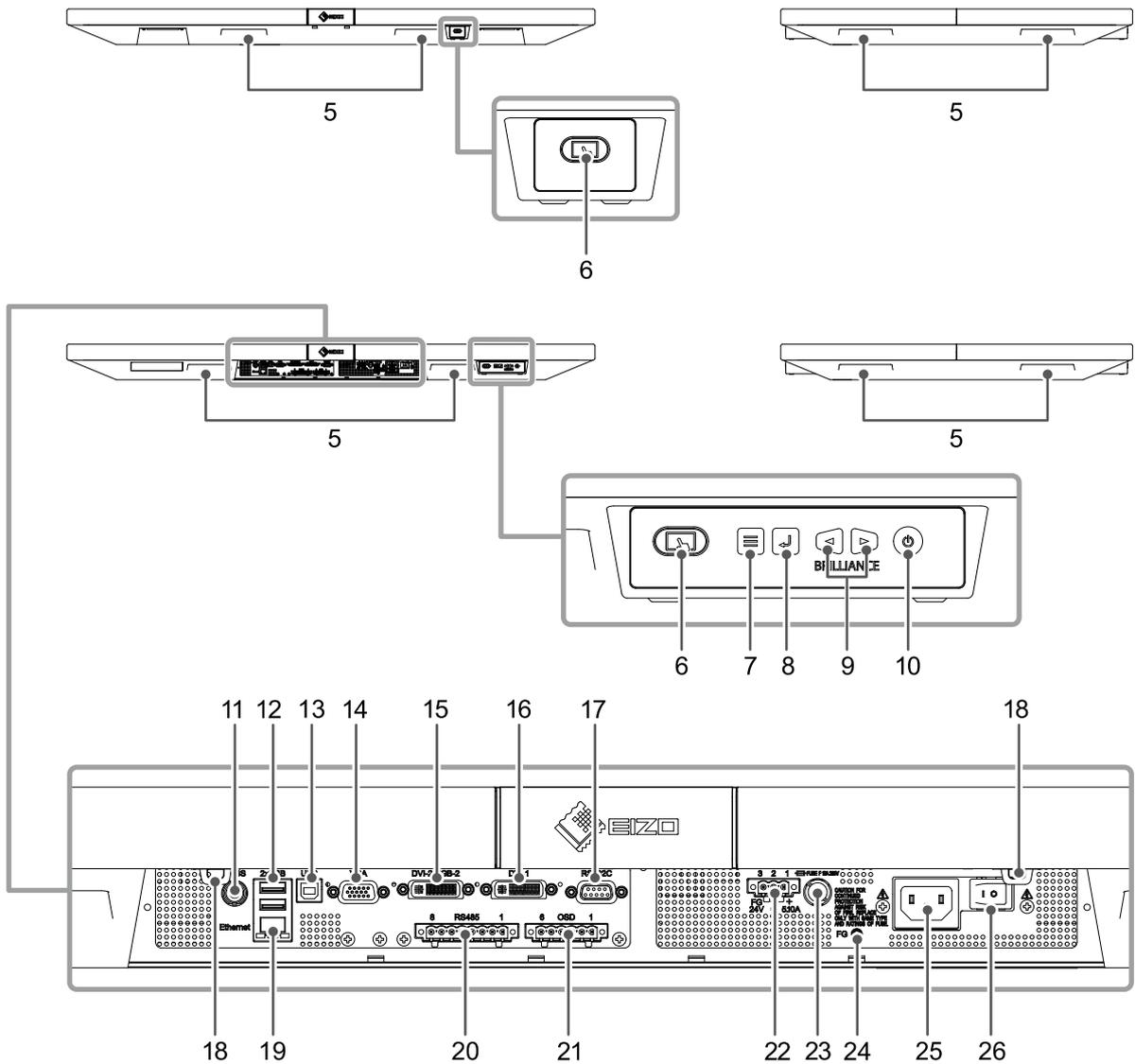
1-2. Controls and Functions

● Front view / Rear view

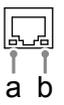


1. ECDIS Indicator	When the monitor brilliance is set to the ECDIS adjustment value, the letters "ECDIS" light up green. Note <ul style="list-style-type: none">• Shipment adjustment for ECDIS of this product is carried out while the monitor is positioned vertically.• The ECDIS indicator works only during DVI-1 or DVI-2 input.
2. Power lamp	Indicates the operation status of the monitor. Green: Screen display When turned off: Power off
3. Cooling fan	Cooling fans are installed.
4. Buzzer	An alarm buzzer is installed.

● Side view



5. Handle	Handles for transportation
6.  button	Enables or disables touch panel operation. The button lights up blue when touch panel operation is enabled. Note <ul style="list-style-type: none"> Two buttons are provided. You can use either one of them according to the installation position of the monitor. Touch panel calibration (sensitivity adjustment) can be carried out by holding down the button for two seconds with touch panel operation enabled.
7.  button	Displays the Adjustment menu, or cancels adjustment / setting.
8.  button	Displays the signal name that is currently input, or determines an item of the Adjustment menu and saves adjusted values.
9.  buttons	Adjusts the brightness, or selects an Adjustment menu item and adjusts / sets functions.
10.  button	Turns the power on or off. To turn the power off, hold down  for five seconds or more. The progress bar is shown on the screen, then the power is turned off.
11. CVBS connector (BNC)	Inputs video signal.
12. USB downstream port	Connects to a peripheral USB 2.0 device.

13. USB upstream port	Connect a USB cable to this port to:		
	<ul style="list-style-type: none"> • Use the touch panel, • control the monitor via USB, or • use USB hub function. 		
14. VGA (D-Sub) connector	Inputs analog signal of a PC.		
15. DVI-2 / RGB-2 (DVI-I) connector	Inputs DVI signal (digital, analog) of a PC.		
16. DVI-1 (DVI-D) connector	Inputs DVI signal (digital) of a PC.		
17. RS232C port	D-Sub 9-pin (female) connector: Use this connector to control the monitor via RS-232C communication.		
18. Banding band holder	Holds a banding band used to secure the cable.		
19. Ethernet port	Connect a network cable to this port to control a monitor via Ethernet.		
		a) Link LED	Green Network connection is established.
			When turned off Network connection is not established.
		b) Status LED	Blinking orange Data communication in process.
20. RS485 port	Use this connector to control the monitor via RS-485 communication.		
21. OSD port	Use this port to control the control buttons from outside.		
22. DC power connector	Installs the DC power terminal block.		
23. DC power fuse	A DC power fuse is installed.		
24. Functional earth terminal	The tapped hole is M4 (4 mm nominal diameter), 6 mm depth.		
25. AC power connector	Connects the power cord. The insulation cover is attached to the AC power connector at factory shipment.		
26. AC main power switch	Turns the AC main power on or off. : On, ○ : Off		

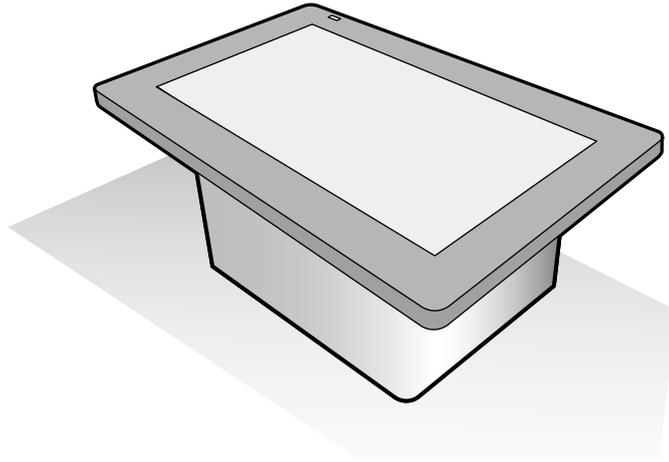
Chapter 2 Installation / Connection

2-1. Installation

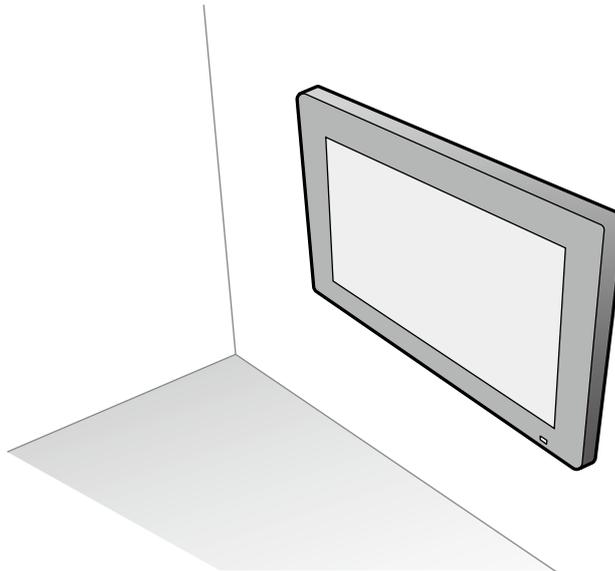
This product can be installed horizontally or vertically.
(Allowable angle: 0° to 90°)

● Installation examples

Installation example 1: Horizontal



Installation example 2: Vertical



Attention

- When installing the monitor vertically, place it so that the cable connectors are located on the lower side.

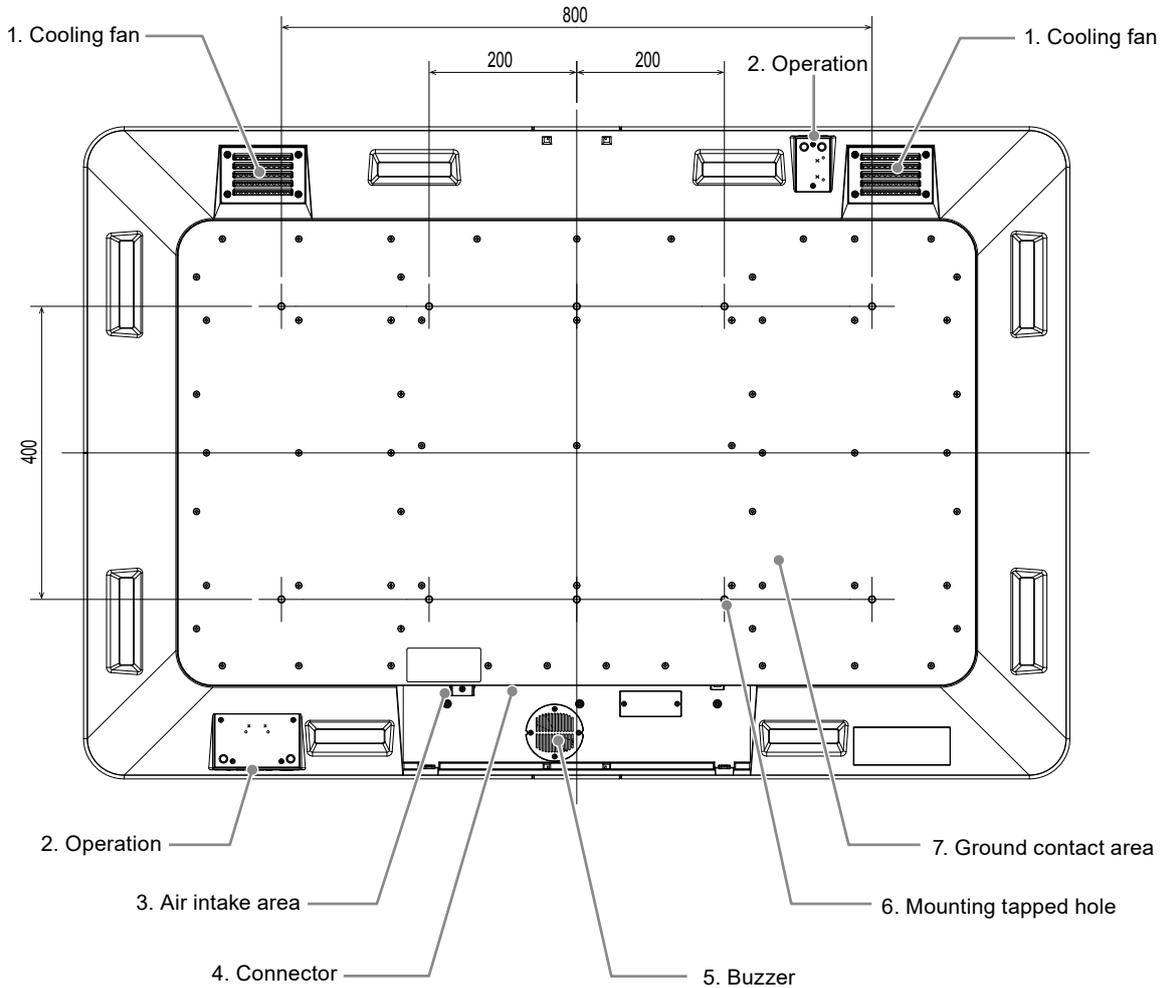
Note

- The safe distance between the monitor and compass is as follows.
 - Standard compass: 2.95 m
 - Steering compass: 1.95 m
 - Recommended viewing distance is 1824 mm or more (* Based on IEC 62288).
-

● Installation condition

Rear view

Unit: mm

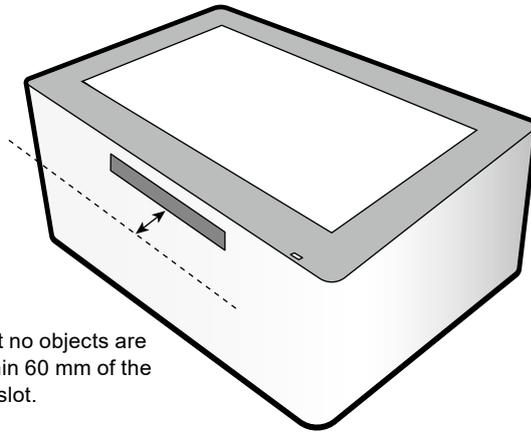


Name	Installation condition
1. Cooling fan	<ul style="list-style-type: none"> Do not block the area around the cooling fans. Ensure there is sufficient space around the cooling fans so that air can circulate.
2. Operation	<ul style="list-style-type: none"> Do not block the area around the operation.
3. Air intake area	<ul style="list-style-type: none"> Do not block the area around the air intake area. Ensure there is sufficient space around the air intake area so that air can circulate.
4. Connector	<ul style="list-style-type: none"> Do not subject the cable to any excessive load. Note that load on the cable may damage the connector.
5. Buzzer	<ul style="list-style-type: none"> Do not block the area around the buzzer when using it.
6. Mounting holes (10 holes)	<ul style="list-style-type: none"> Prepare 10 pcs of M8 (8 mm nominal diameter) screws with thread pitch of 1.25 mm, separately. Depth of the tapped hole is 15 mm. Embed the screw 12 mm to 15 mm (inclusive) below the surface. Align the 10 mounting holes in the monitor with those in a table, etc., then secure the monitor using the screws. Be sure to fully tighten the 10 screws (recommended torque: 10 N·m to 12 N·m).
7. Ground contact area	<ul style="list-style-type: none"> The flatness of the ground contact area must be within 2 mm.

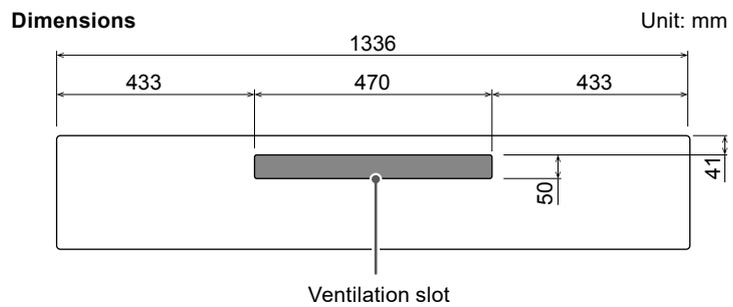
● **Securing the Air Flow**

Create a ventilation slot as shown in the following figure in order to secure the air flow.

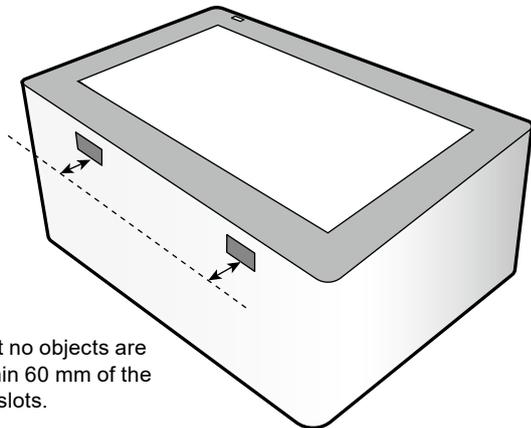
Air intake area side



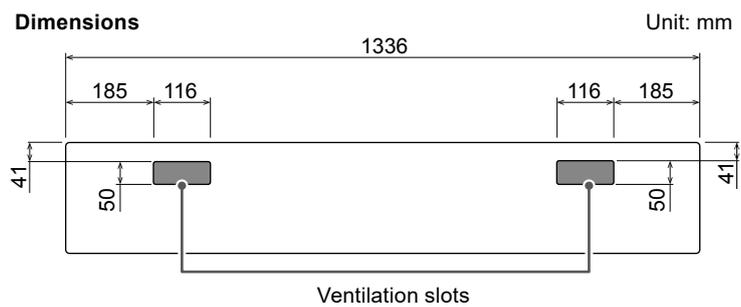
Ensure that no objects are placed within 60 mm of the ventilation slot.



Air exhaust area (cooling fan) side



Ensure that no objects are placed within 60 mm of the ventilation slots.



● Checking strength of the installation location

The weight of this product is approximately 47.2 kg. Check the withstand loads of the installation location and fittings used.

● Securing the installation environment

- When mounting the monitor on a wall, pay attention to lighting equipment, sprinklers, and sensors on the ceiling.
- To ensure performance and prevent malfunctions of the monitor, do not install it in the following locations:
 - Where the monitor may be subjected to strong vibrations and/or impacts
 - Where dew tends to form as a result of air from an air conditioner or fluctuating temperatures
 - Where water droplets may fall from an air conditioner installed above the monitor
 - Near the source of a magnetic field, heat, steam, or greasy fumes

● Installing a fitting on the monitor main unit

Attention

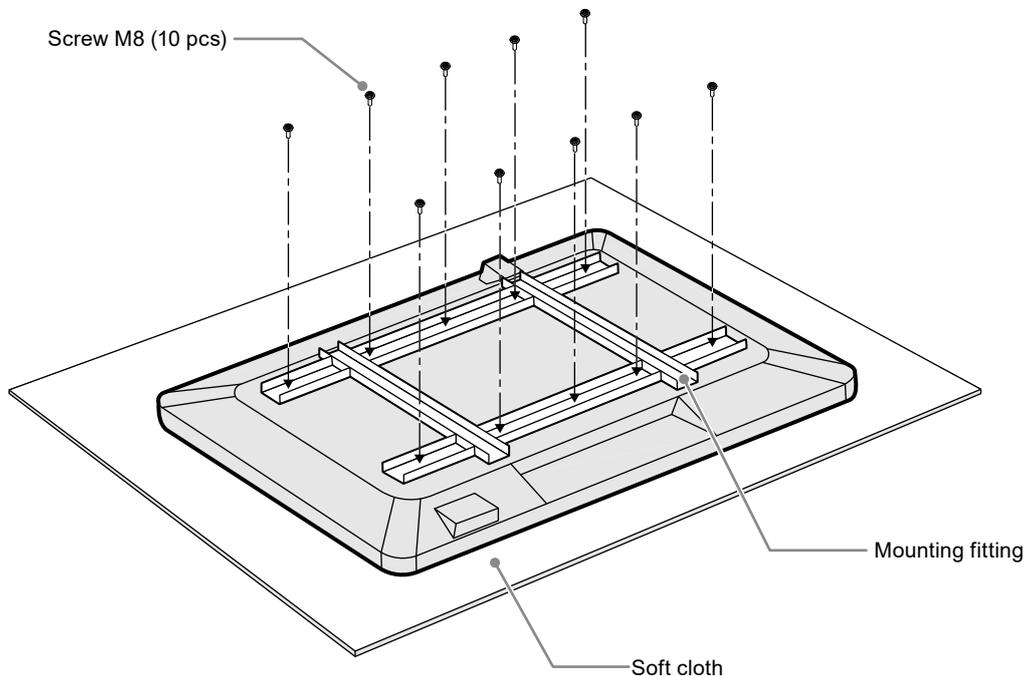
- The mounting fitting is not supplied. Please prepare separately.

1. To prevent the surface of the LCD panel from being damaged, lay the monitor with its panel surface facing down on a thick, soft cloth spread on a stable surface.

2. Install the fitting on the monitor.

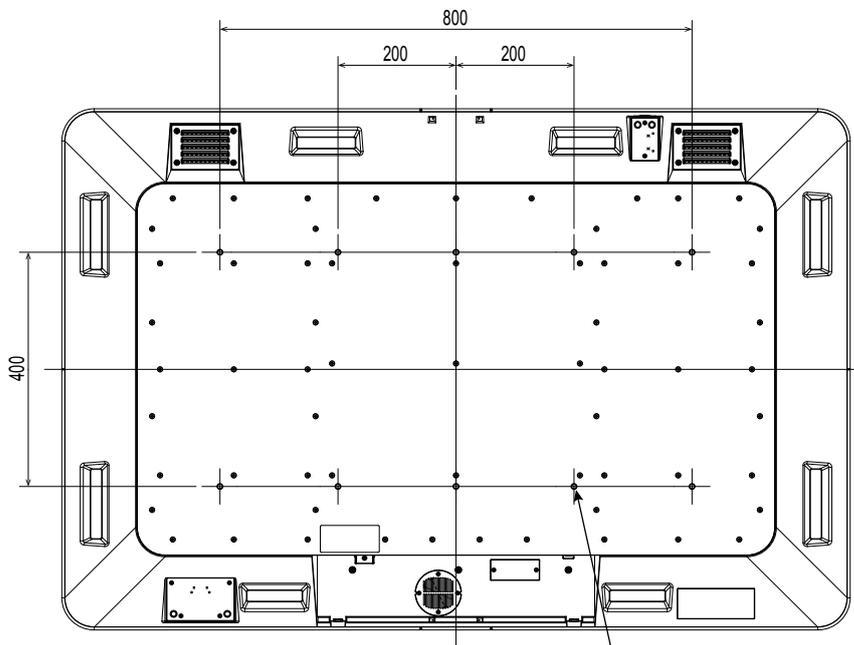
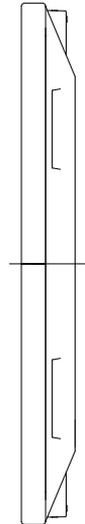
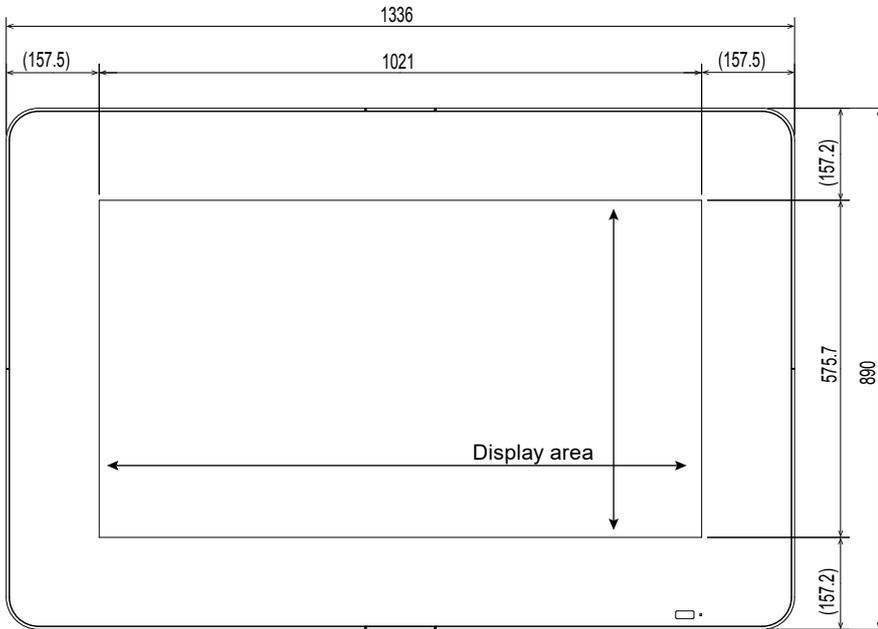
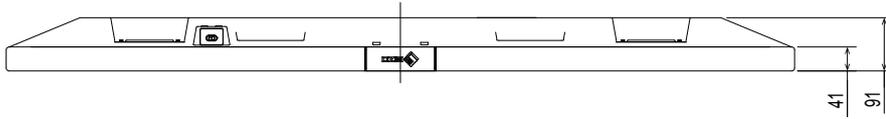
Align the 10 mounting holes in the monitor with those in the fitting, then secure the fitting using the screws (recommended torque: 10 N·m to 12 N·m).

Installation example

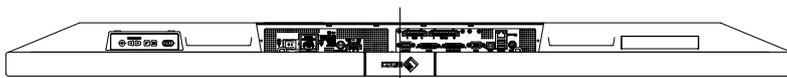


● Outline Dimensions

Unit: mm



Mounting holes M8
Depth 15 mm
Thread pitch 1.25 mm (10 holes)



2-2. Connection

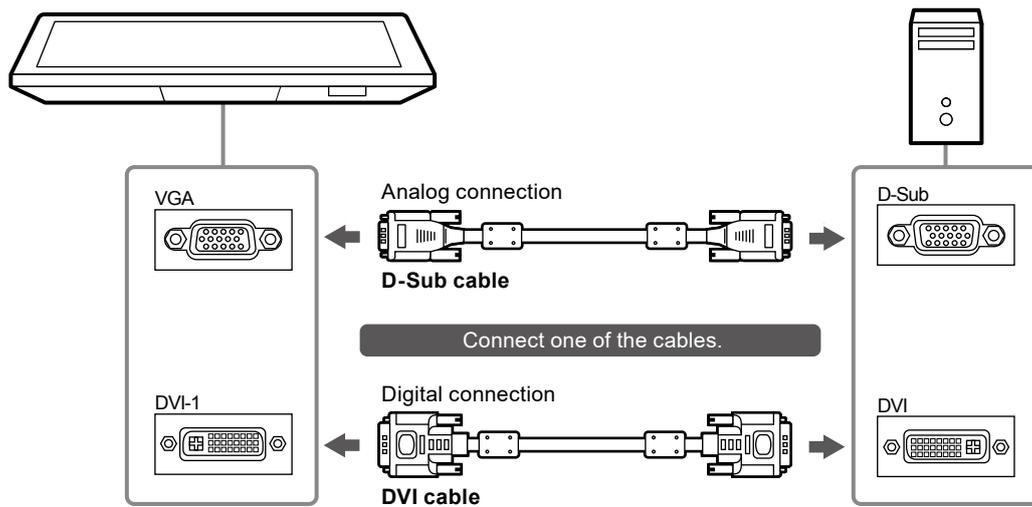
Attention

- Confirm the operation and performance of the cables before using them.
- Check the shapes of the connectors, and connect the cables.
- After a connector with a securing screw is plugged in, tighten the screw of the connector to secure the coupling.

1. Connect a signal cable.

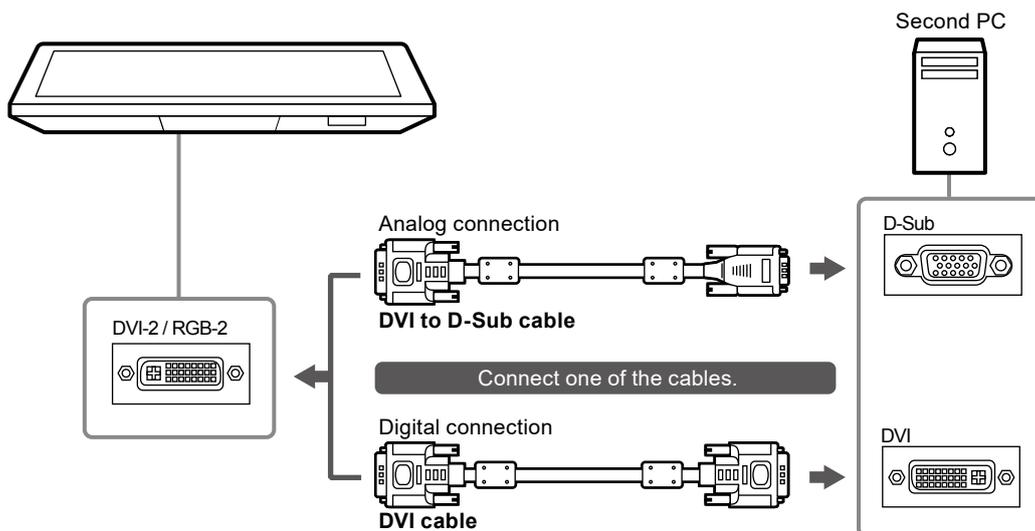
● Connecting a single PC

Connection example:



● Connecting the second PC

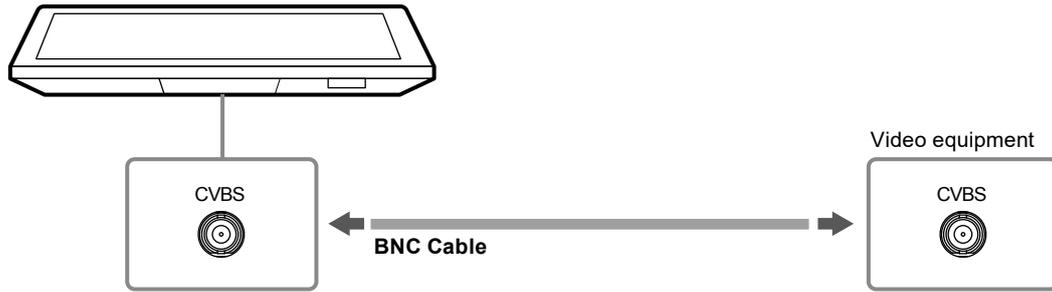
Connection example:



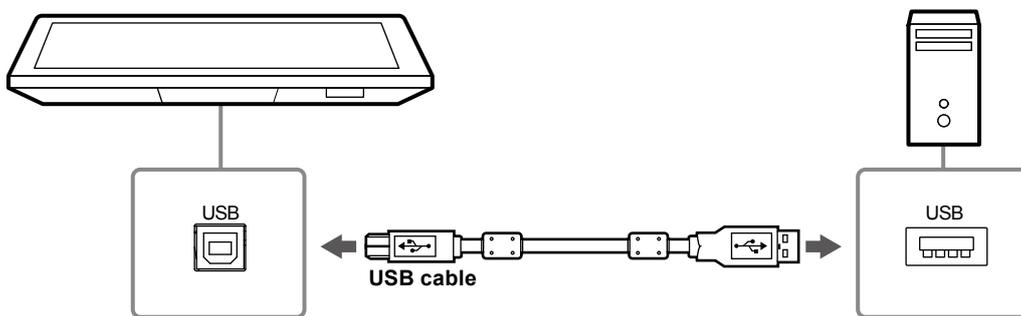
Note

- A VGA or DVI-1 unused terminal can be used.

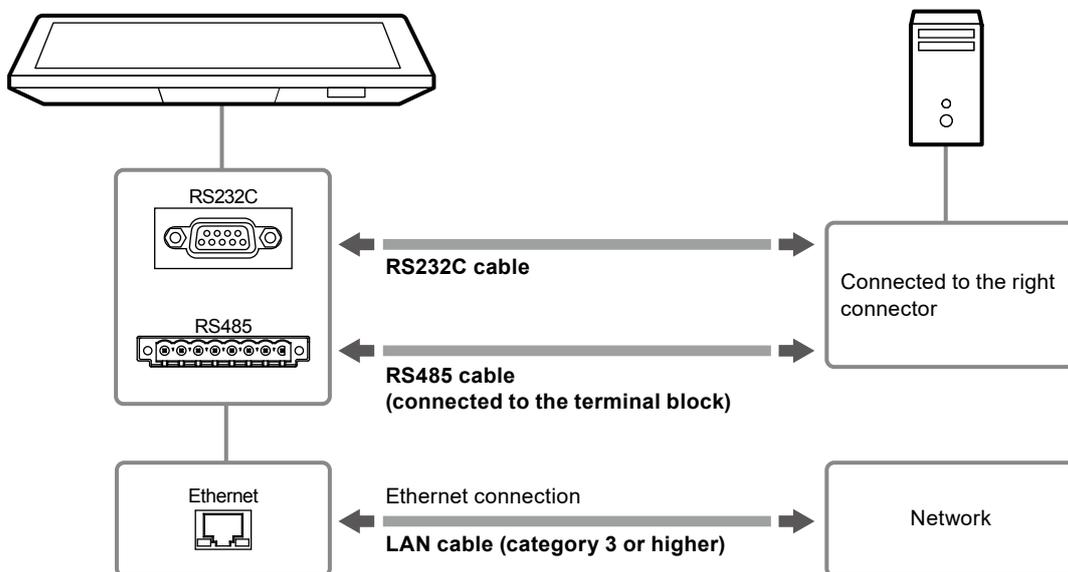
● Connecting video equipment



2. Connect a USB cable. This is required for controlling the touch panel, or for controlling the monitor from the system.



3. Connect a communication cable. Prepare and connect a cable required for controlling the monitor.



Note

- Two or more communication methods can be used for controlling the monitor.
- Network settings are required for using Ethernet. For details, refer to the Monitor User's Manual (on the CD-ROM).

4. To control the control buttons from outside, connect the control cable to the OSD port.

For details on the control, contact your local EIZO representative.

5. Connect the monitor to a power supply.

There are two options for connecting the monitor to a power supply. Carry out the connection according to the installation environment and conditions of use.

- Using the DC power terminal block
- Using the AC power connector

Attention

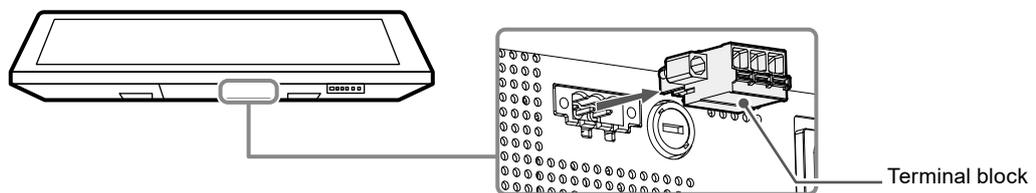
- Do not turn on the monitor or send power through connecting wires until connection to the power supply is complete.

Note

- When both of the power supplies are connected, AC power is used.

● Using the DC power terminal block

1. Disconnect the terminal block.



2. Connect the electrical wires to the terminal block.

Attention

- Use electrical wire of AWG 18 to 12 (0.8 mm² to 3 mm²).

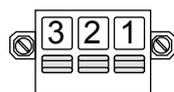
1. Strip the insulation from the electrical wires (stripping length: 7±0.5 mm).

Add a ferrule to the end of each wire, if required.
Use ferrules manufactured by PHOENIX CONTACT.

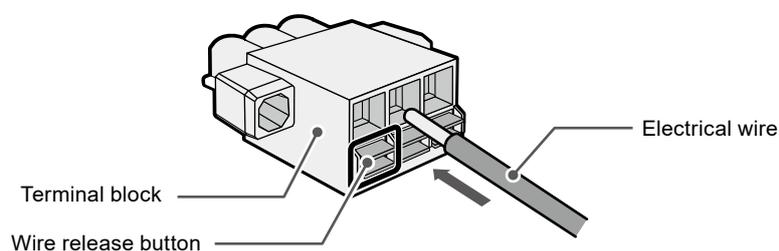


2. Insert each electrical wire into the terminal block while holding down the wire release button, then release the button to secure the wire.

The input polarities of the terminal block are shown below.

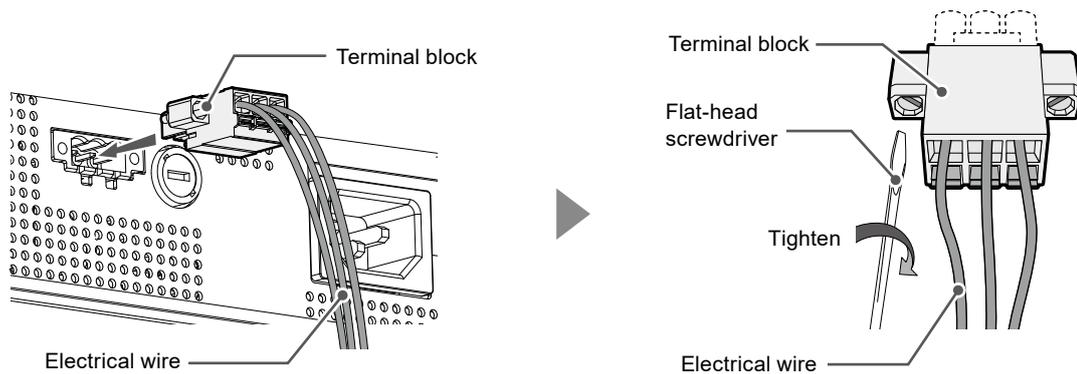


Pin No.	Input Polarity
1	DC+24V
2	Ground
3	Shield



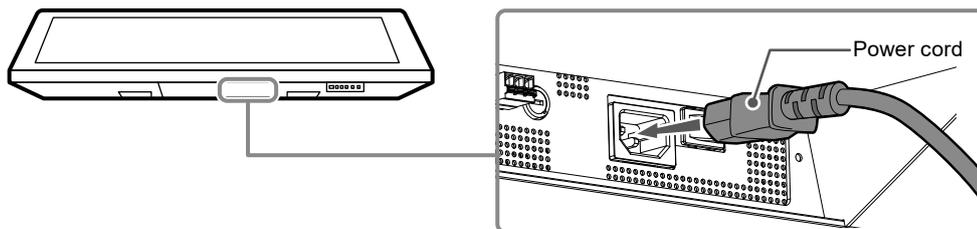
3. Install the terminal block.

Install the terminal block to the monitor main unit, and tighten the left and right clamp screws using a flat-head screwdriver with tip width of 2.5 mm (recommended torque: 0.2 N·m to 0.3 N·m).



● Using the AC power connector

1. Remove the insulation cover from the AC power connector.
2. Connect the power cord to the AC power connector.
Securely fix the power plug.
3. Connect the power cord to the power outlet.



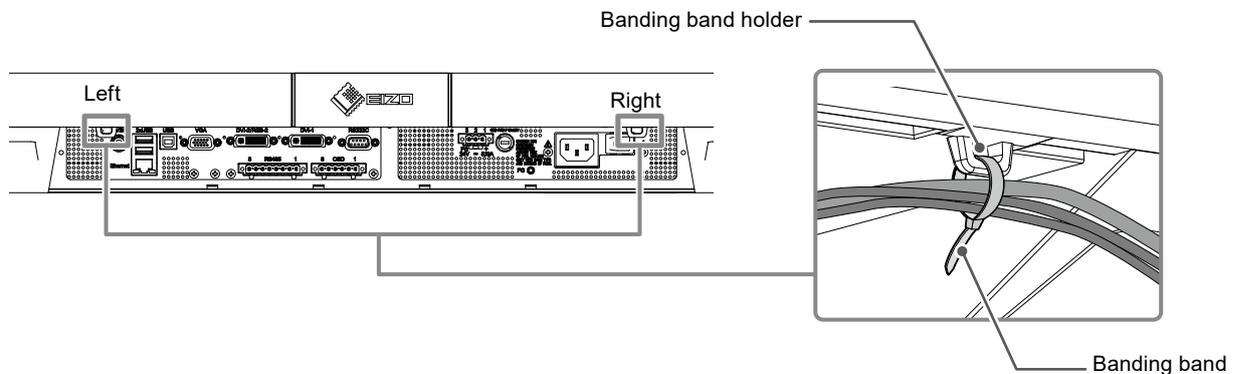
Attention

- Do not remove the insulation cover if you do not use the AC power connector.

6. Secure the cable with a banding band to prevent disconnection.

Right: For AC power cord and DC electrical wires

Left: For USB cable



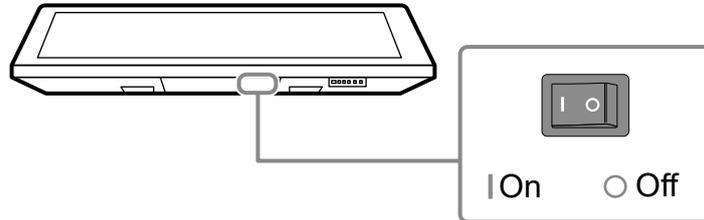
Attention

- Banding bands are not supplied with this product. Please prepare separately.

2-3. Displaying the Screen

1. When using the AC power supply, make sure the AC main power switch is turned ON. (It is set to ON by factory default.)

 lights up green when the switch is ON.



2. Press  to turn on the monitor.

The monitor operation buttons light up green. ( is blue.)

Calibration of the touch panel automatically starts.

Do not touch the touch panel until the "Don't touch the panel. Calibrating..." message disappears from the screen.



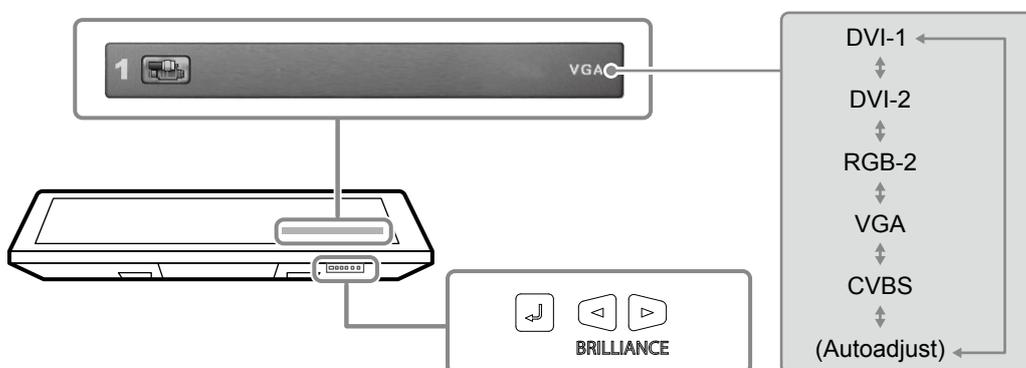
3. Turn on the PC.

The display will turn ON.

4. If an image does not appear, switch the input signal.

Procedure

1. Press .
The connector name of the currently displayed signal appears at the bottom right of the screen.
2. Press   to switch signals.
3. Press  to apply the change.



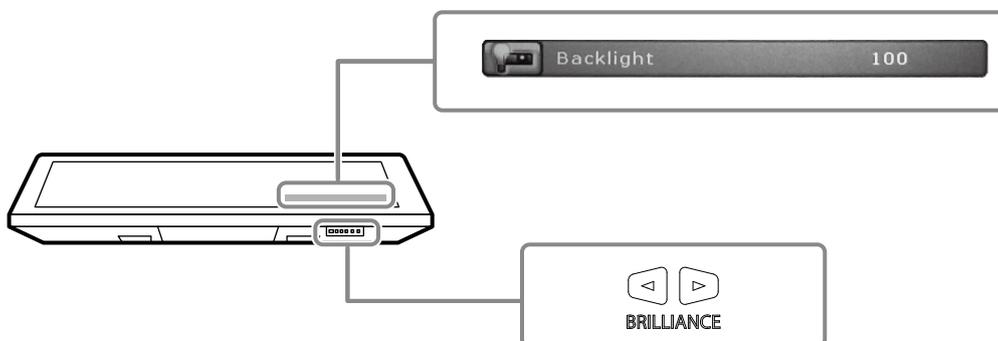
If an image does not appear even after switching input signals, refer to “4-1. No Picture” (page 30).

5. Adjust the brightness.

Adjust the brightness of the screen to suit the installation environment and/or personal preference.

Adjustable Range

0 to 100



2-4. ECDIS Setup

This monitor is available for ECDIS (Electronic Chart Display and Information System). Following information is necessary for implementation.

- Specifications for monitor control
- Specifications for ECDIS color table

Please contact your local EIZO representative for details, or refer to our web site:

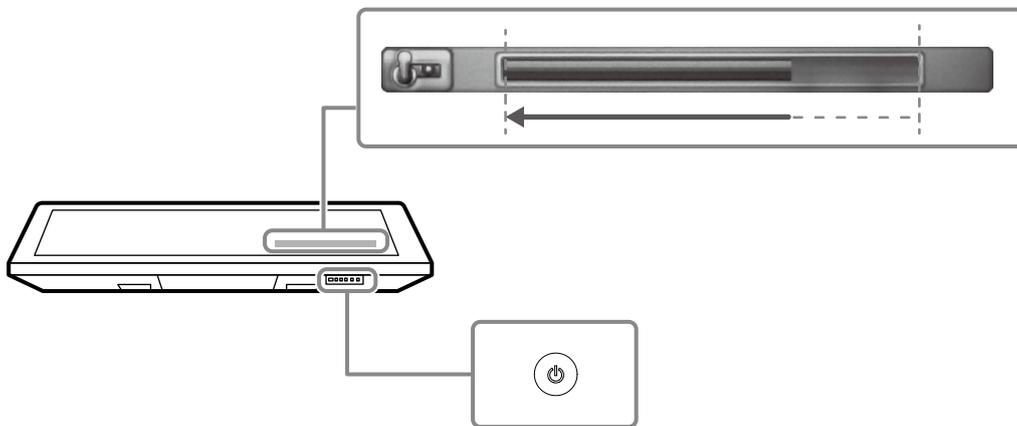
<http://www.eizoglobal.com>

2-5. Turning Power Off

1. Hold down the button for five seconds or more.

The progress bar is shown on the screen, then the power is turned off.

Control buttons other than  go off.



Attention

- To completely shut off the power, disconnect the AC power cord and the DC electrical wires.
-

Chapter 3 Touch Panel Settings

3-1. Types of Touch Panel Drivers

The following table shows the touch panel drivers that can be used for this monitor. Available functions differ depending on the driver. Use one of the drivers.

	Windows standard driver	Touch panel driver supplied by EIZO (DMT-DD)	
OS supported	Windows 11 / Windows 10 / Windows 8.1 / Windows 7		
Installation of the touch panel driver	Not required	Required	
Detection method (operation mode)	Touch digitizer	Mouse emulation	Touch digitizer
Multi-touch operation	√	-	√
Multi-monitor	-	√	√
Touch sound output	-	√	√
Depiction on applicator	√ ^{*1}	√	√ ^{*1}

*1 Touch operations may not be recognized on an application designed to use mouse emulation.

3-2. Using Windows Standard Driver

When using Windows standard driver, set up the driver according to the following procedure. You do not need to install the driver.

1. Connecting a USB cable

Make sure the USB cable has been connected between the monitor and PC (see page 17).

2. Setting up the sensitivity

Execute the "TPOffset" application on the "EIZO LCD Utility Disk" (CD-ROM), and adjust the sensitivity of the touch panel. For details, refer to the TPOffset User's Manual (on the CD-ROM).

Attention

- When you have changed the installation location and angle of the monitor, be sure to execute "TPOffset".

3. Running calibration

Attention

- Do not put your hands or any metal close to the screen because the screen is susceptible to the dielectric object.
- If a "User Account Control" dialog box is displayed during operation, proceed according to the displayed instructions.

1. Open the Windows Control Panel.

The method for opening the Control Panel differs depending on the OS. Right-click the "Start" button, then select "Control Panel".

Windows 11

From the Start menu, click "All Apps" - "Windows Tools" - "Control Panel".

Windows 10

Right-click the "Start" button, then select "Control Panel".

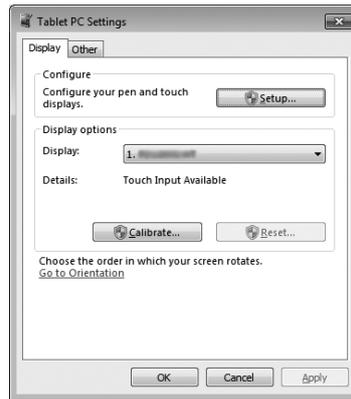
Windows 8.1

1. Click  at the bottom of the "Start" screen.
2. The "Apps" screen appears.
3. Click "Control Panel" under "Windows System".

Windows 7

Click "Start" - "Control Panel".

2. Click "Hardware and Sound" - "Tablet PC Settings".
The "Tablet PC Settings" window appears.



3. Click "Setup" in the "Display" tab.
A touch screen specification screen with a white background is displayed.

Attention

- If using the monitor in a multiple monitor environment, specify the touch screen according to the message displayed on screen.
-

4. Touch the screen with your finger.
The touched screen is recognized as a touch screen.

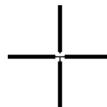
5. Press "Enter" on the keyboard.
The "Tablet PC Settings" window reappears.

6. Click "Calibrate".
A calibration screen with a white background is displayed.

Attention

- If using the monitor in a multiple monitor environment, select the monitor to be used for calibration from the "Display" pulldown menu and then click "Calibrate".
-

7. Touch the calibration target (cross) for a few seconds with your finger and release.
The calibration target appears on the screen 16 times, starting from the top left to top right and then down to the bottom left to bottom right.



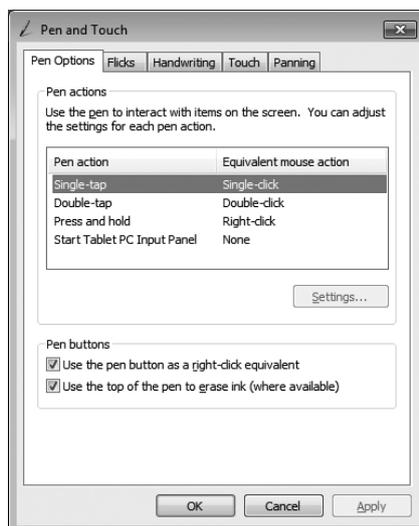
Note

- For second or subsequent calibrations, the calibration target appears four times.
-

8. After completing calibration, click "Yes" to save the calibration data.
9. Click "OK" to close the window.

4. Setting the operation method

1. Open the Windows Control Panel.
The method for opening the Control Panel differs depending on the OS (see page 23).
2. Click "Hardware and Sound" - "Pen and Touch".
"Pen and Touch" window appears.



3. Configure the touch panel operation settings in the "Pen and Touch" window. For detailed settings, refer to the settings on each tab and Windows Help.
4. After completing settings, click "OK" to close the window.

3-3. Using DMT-DD

When using the touch panel driver supplied by EIZO (DMT-DD), set up the driver according to the following procedure.

1. Connecting a USB cable

Make sure the USB cable has been connected between the monitor and PC (see page 17).

2. Installing the driver

Install the touch panel driver "DMT-DD" on the "EIZO LCD Utility Disk" (CD-ROM). Continue the procedure and configure the touch panel settings.

For details, refer to Chapter 1 and 2 of the DMT-DD User's Manual (on the CD-ROM).

3. Setting up the sensitivity

Execute the "TPOffset" application on the "EIZO LCD Utility Disk" (CD-ROM), and adjust the sensitivity of the touch panel. For details, refer to the TPOffset User's Manual (on the CD-ROM).

Attention

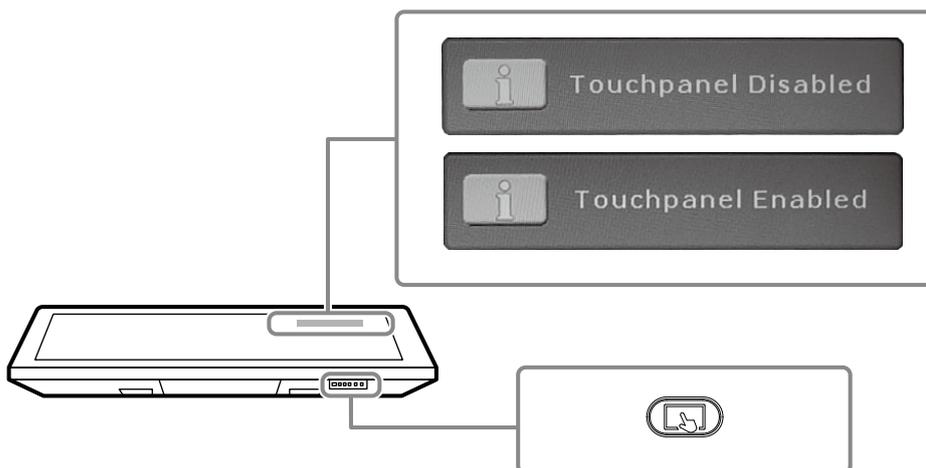
- When you have changed the installation location and angle of the monitor, be sure to execute "TPOffset".

4. Setting the operation method

Set up the operation method of the touch panel. For details, refer to Chapter 3 and the subsequent chapters of the DMT-DD User's Manual (on the CD-ROM).

3-4. Enabling or Disabling Touch Panel Operation

Toggle between enabling and disabling touch panel operation if necessary. (It is enabled by factory default.)



Note

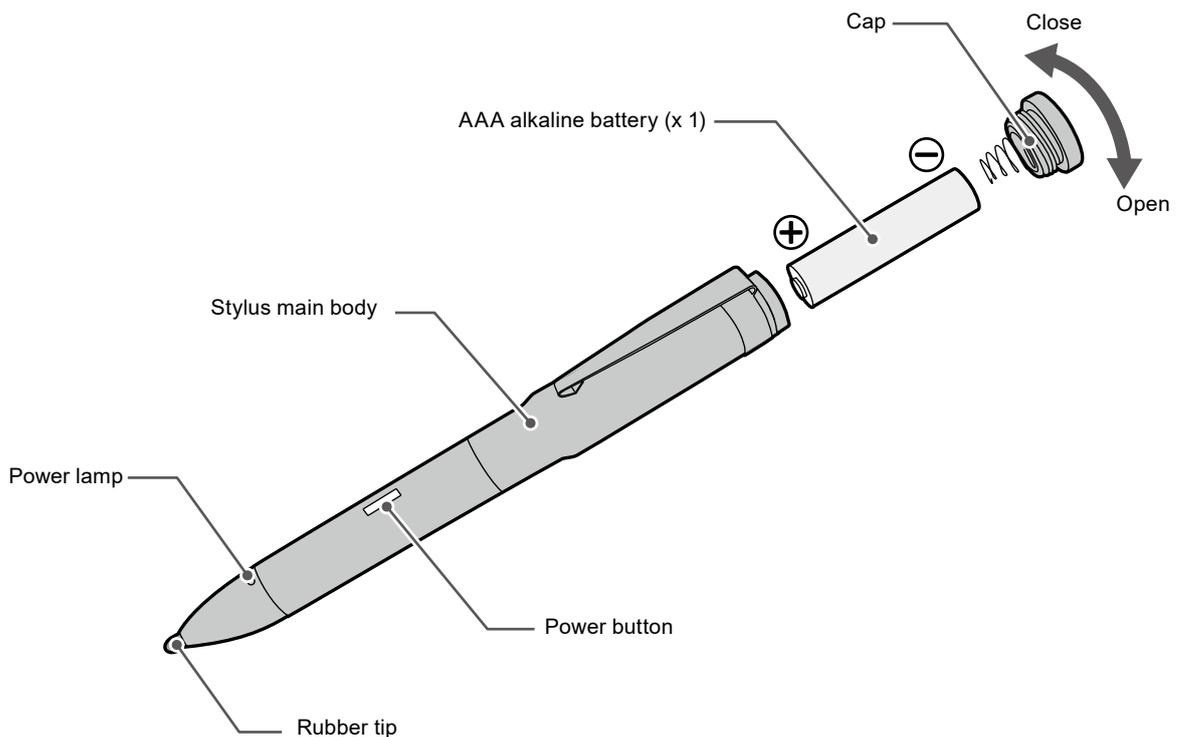
- If the touch panel does not respond normally, try performing sensitivity adjustment for the touch panel. Hold down  for two seconds or more to perform sensitivity adjustment. Do not touch the touch panel until the "Don't touch the panel. Calibrating..." message disappears from the screen. For more information, see "4-2. Touch Panel Problems" (page 31).

3-5. How to Use the Stylus (Touch Pen)

Configure the touch panel settings before using the stylus (see “Chapter 3 Touch Panel Settings” (page 23)).

● Turning the power on

1. Insert an AAA battery into the stylus and close the cap tightly.
2. Press the power button for approximately one second.
The power lamp lights up blue.
To turn the power off, press the power button again.



Note

- Standby mode is entered if the device is not operated for three minutes. When 15 minutes have elapsed after that, the power is automatically turned off. In standby mode, when the touch panel is touched with the pen tip for approximately one second, the power is turned on.
- The power lamp color differs depending on the stylus' operation status as follows.
 - Blue: Power on
 - Blinking blue: Standby mode
 - When turned off: Power off

● Replacing the battery

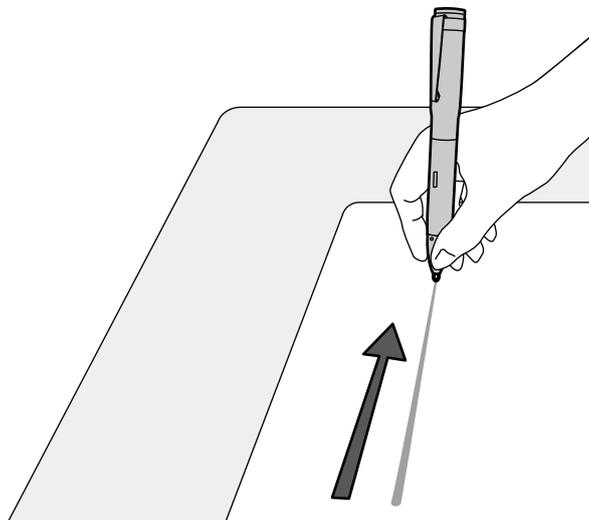
The stylus supplied with this product is powered by a battery. When the battery dies, replace it with a new battery.

Attention

- The battery supplied with the product is for checking operation, and its life may be shorter than usual.
- The estimated battery life is approximately 1 month assuming operation of one hour per day.
- If the stylus is not used for a long term, remove the battery from it.

● Checking operation

1. Launch the Windows Paint application.
2. Hold the stylus vertically to the touch panel, and draw a line from left to right.
3. Make sure the line is visible. If the line is not visible, check whether the power is turned on.



Attention

- When using the stylus, hold a part near the pen tip tight. If you hold a part a certain distance from the pen tip or hold the stylus too lightly, sensitivity may reduce.
 - Exercise care that you do not touch the cap while using the stylus. The touch panel operations will be disabled if you touch the cap while using the stylus.
 - Handle the pen tip with care since it is fragile and may be damaged if the stylus is dropped.
-

● Replacing the rubber tip

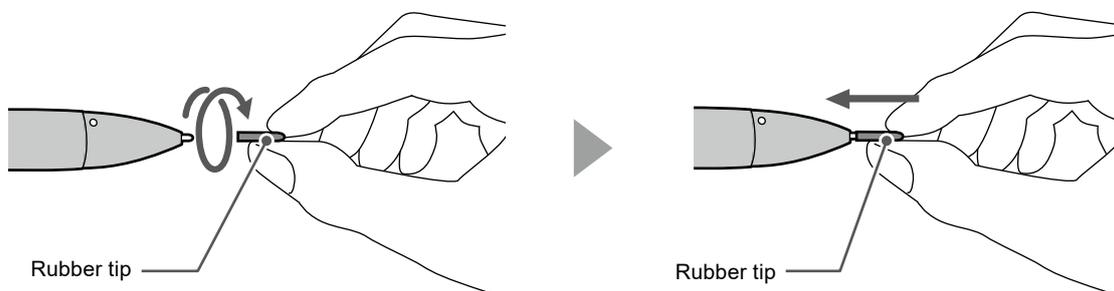
When the rubber tip is worn away or broken, it must be replaced.

Attention

- Do not use the stylus if the rubber tip is broken or removed. Doing so may scratch the monitor surface.
-

Replacement procedure

1. Twist the rubber tip and slowly pull it out.
2. Insert a new rubber tip all the way.

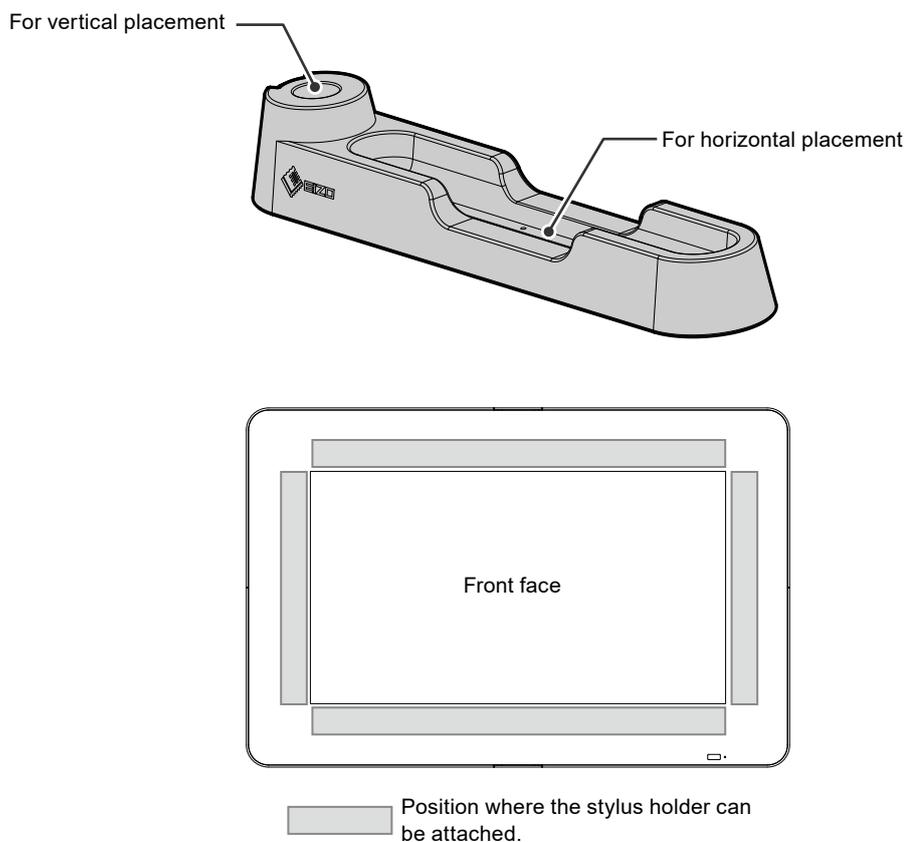


Attention

- Do not forcibly push in the rubber tip. Doing so may break the rubber.
-

● About the stylus holder

You can attach the holder used for placing the stylus to the monitor. The magnet on the bottom of the holder enables it to be attached to a monitor position as shown in the figure.



Attention

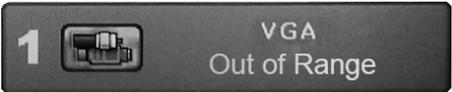
- The stylus holder uses a strong magnet. Be careful of the following points.
 - Do not bring magnetic storage media and electronic equipment closer to the stylus holder. Otherwise, magnetic force may hamper normal operations.
 - Do not drag the stylus holder on the monitor. Doing so may damage or break the monitor surface.
 - Do not place the stylus holder on a metallic table or shelf. Doing so may damage or break the table or shelf surface.
- Do not place the stylus within the display area of the monitor. Doing so may cause the touch panel to malfunction.

Note

- The stylus holder can only be used when the monitor is installed horizontally. It cannot be used when the monitor is installed vertically.
-

Chapter 4 Troubleshooting

4-1. No Picture

Problem	Possible cause and remedy
<p>1. No picture</p> <ul style="list-style-type: none"> None of the operation buttons light up. 	<ul style="list-style-type: none"> Check whether the power cord is connected properly. Turn the main power switch on. Turn off the main power, and then turn it on again a few minutes later. If the monitor is used in a low temperature environment, leave the monitor for a while with the power turned on, then turn the power off and on.
<ul style="list-style-type: none"> Only the  button lights up green. 	<ul style="list-style-type: none"> Press .
<ul style="list-style-type: none"> All operation buttons light up green or the  button blinks green. 	<ul style="list-style-type: none"> Adjust the brightness (brilliance) of the screen. Move the mouse or press any key on the keyboard. Check whether the PC is turned on. Switch the input signal (see “4. If an image does not appear, switch the input signal.” (page 21)).
<p>2. The message below appears.</p>	<p>This message appears when the signal is not input correctly even when the monitor is functioning correctly.</p>
<ul style="list-style-type: none"> This message appears when no signal is input. Example: 	<ul style="list-style-type: none"> The message shown left may appear, because some PCs do not output the signal immediately after power-on. Check whether the PC is turned on. Check whether the signal cable is connected properly. Switch the input signal (see “4. If an image does not appear, switch the input signal.” (page 21)).
<ul style="list-style-type: none"> The message shows that the input signal is out of the frequency specification range. Example: 	<ul style="list-style-type: none"> Check whether the PC is configured to meet the resolution and vertical scan frequency requirements of the monitor (see “Compatible resolutions / signal formats” (page 33)). Reboot the PC. Select an appropriate display mode using the graphics board’s utility. Refer to the User’s Manual of the graphics board for details.

4-2. Touch Panel Problems

Problem	Possible cause and remedy
1. Touch operation is disabled.	<ul style="list-style-type: none"> • Touch panel operation may be disabled. Press the  button to enable the operation. The  button lights up blue.
	<ul style="list-style-type: none"> • Check that the monitor and PC are connected with a USB cable.
	<ul style="list-style-type: none"> • Turn the monitor off and on.
	<ul style="list-style-type: none"> • If moisture or an object is on the touch panel surface, remove it. (Refer to the Monitor User's Manual (on the CD-ROM).) This product automatically disables touch panel operations by detecting moisture or any other object that may cause a malfunction on the touch panel surface.
	<ul style="list-style-type: none"> • Check that the power cord of the monitor and PC is connected to a grounded main outlet. Failure to ground the equipment may result in a malfunction.
	<ul style="list-style-type: none"> • Hold down  for two seconds or more to perform touch panel sensitivity adjustment. Do not touch the touch panel until the "Don't touch the panel. Calibrating..." message disappears from the screen.
	<ul style="list-style-type: none"> • Perform touch panel sensitivity adjustment using TPOffset.
	<ul style="list-style-type: none"> • If two or more PCs are connected to the monitor, only one of them can perform touch operations. Check that the monitor and PC used for touch operations are connected with a USB cable.
2. Cursor position is not correct. / Cursor jumps.	<ul style="list-style-type: none"> • Connect the monitor to the PC with the cable indicated in the Setup Manual. The touch panel may not work correctly if a conversion adapter is used.
	<ul style="list-style-type: none"> • Turn the monitor off and on.
	<ul style="list-style-type: none"> • Hold down  for two seconds or more to perform touch panel sensitivity adjustment. Do not touch the touch panel until the "Don't touch the panel. Calibrating..." message disappears from the screen.
	<ul style="list-style-type: none"> • Check that the power cord of the monitor and PC is connected to a grounded main outlet. Failure to ground the equipment may result in a malfunction.
	<ul style="list-style-type: none"> • Perform touch panel sensitivity adjustment using TPOffset.
	<ul style="list-style-type: none"> • Changing the position or angle of the monitor may cause the cursor to jump.
	<ul style="list-style-type: none"> • Keep metals away from the touch panel surface as they may lead to incorrect cursor positioning.
	<ul style="list-style-type: none"> • If the touch panel is dirty, the touch panel may not operate properly. Clean the touch panel surface. (Refer to the Monitor User's Manual (on the CD-ROM).)
	<ul style="list-style-type: none"> • The spray for preventing static electricity may affect the sensitivity of the touch panel and cursor positioning.
	<ul style="list-style-type: none"> • Do not touch the touch panel for five seconds after the PC starts up, after turning on the monitor, or after connecting the cable. Touching the touch panel too soon may cause incorrect cursor positioning or disable touch operations. If this occurs, either refrain from touching the touch panel for approximately two minutes, or turn the monitor off and on again. If the problem persists, calibrate the screen again.
	<ul style="list-style-type: none"> • When displaying at a resolution other than the recommended resolution, the touch position and cursor position may shift due to the scaling function of the graphics board. In that case, check the graphics driver settings and change the scaling to the monitor. After changing the settings, perform calibration again.

Problem	Possible cause and remedy
3. The cursor does not appear at the touched position and instead is displayed at a point-symmetric position with respect to the center of the screen.	<ul style="list-style-type: none"> • Calibrate the screen again.
4. Cursor is jittery. / Drawing lines are not straight and smooth.	<ul style="list-style-type: none"> • Check that the power cord of the monitor and PC is connected to a grounded main outlet. Failure to ground the equipment may result in a malfunction. • Hold down  for two seconds or more to perform touch panel sensitivity adjustment. Do not touch the touch panel until the "Don't touch the panel. Calibrating..." message disappears from the screen. • Perform touch panel sensitivity adjustment using TPOffset. • The influence of metal may cause jittery cursor. • When multiple monitors are placed close to each other, leave space between monitors.
5. Calibration does not work correctly.	<ul style="list-style-type: none"> • Hold down  for two seconds or more to perform touch panel sensitivity adjustment. Do not touch the touch panel until the "Don't touch the panel. Calibrating..." message disappears from the screen. • Perform touch panel sensitivity adjustment using TPOffset. • Readjust the touch panel to the original state (by clicking "Reset" in the "Display" tab of the "Tablet PC Settings" window accessible from the Windows Control Panel) and then calibrate the touch panel again.
6. No touch sound is heard.	<ul style="list-style-type: none"> • If you have set touch sound to be output through the audio output terminal of the PC, connect speakers. • Install DMT-DD and configure necessity settings. For details, refer to the DMT-DD User's Manual (on the CD-ROM). • Touch sound cannot be heard when Windows standard driver is used.

Attention

- For details on TPOffset (software used to adjust the sensitivity of the touch panel), see the TPOffset User's Manual (on the CD-ROM).

Appendix

Compatible resolutions / signal formats

The monitor supports the following resolutions and signal formats.

- For PC inputs (DVI-1, DVI-2/RGB-2, VGA)

Resolution	Vertical scan frequency	
	DVI-1, DVI-2/RGB-2	VGA
640 × 480	60 Hz	~ 75 Hz
720 × 400	70 Hz	70 Hz
800 × 600	60 Hz	~ 75 Hz
1024 × 768	60 Hz	~ 75 Hz
1152 × 864	-	75 Hz
1280 × 720	60 Hz	60 Hz
1280 × 960	60 Hz	60 Hz
1280 × 1024	60 Hz	~ 75 Hz
1680 × 1050	60 Hz	60 Hz
1920 × 1080 ^{*1}	60 Hz	60 Hz

*1 Recommended resolution

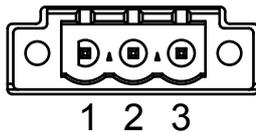
- For video input (CVBS)

Signal Format
NTSC
PAL
SECAM

Pin assignment of connectors

DC power connector

Connector



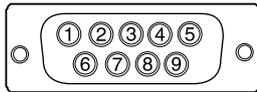
Manufacturer	Monitor Connector Model	Terminal Block Model
PHOENIX CONTACT	CC 2.5/3-GF-5.08	FKCN 2.5/3-STF-5.08

Pin configuration

Pin No.	Signal
1	DC+ 24 V
2	Ground
3	Shielding (Connection to the housing)

RS232C port (D-Sub 9-pin (female))

Connector

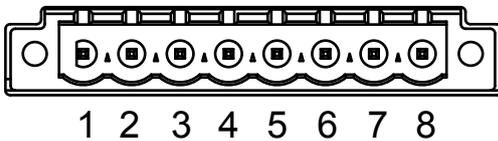


Pin configuration

Pin No.	Signal	Pin No.	Signal
1	-	6	-
2	TXD (output)	7	-
3	RXD (input)	8	-
4	-	9	-
5	Ground		

RS485 port

Connector



Manufacturer	Monitor Connector Model	Terminal Block Model
PHOENIX CONTACT	CC 2.5/8-GF-5.08	FKCN 2.5/8-STF-5.08

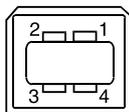
Pin configuration

Pin No.	Signal	Pin No.	Signal
1	TX (A) + (output)	5	RX (A) + (input)
2	TX (B) – (output)	6	RX (B) – (input)
3	TX (C)	7	RX (C) GND
4	Shielding (Connection to the housing)	8	Shielding (Connection to the housing)

USB port

Upstream (Series B)

Connector

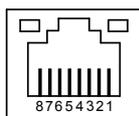


Pin configuration

Pin No.	Signal
1	VBUS
2	Data-
3	Data+
4	Ground

Ethernet port (RJ-45)

Connector

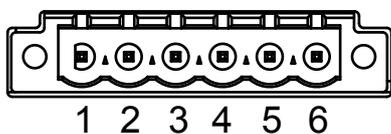


Pin configuration

Pin No.	Signal	Pin No.	Signal
1	Tx+	5	-
2	Tx-	6	Rx-
3	Rx+	7	-
4	-	8	-

OSD port

Connector



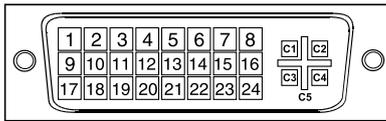
Manufacturer	Monitor Connector Model	Terminal Block Model
PHOENIX CONTACT	CC 2.5/6-GF-5.08	FKCN 2.5/6-STF-5.08

Pin configuration

Pin No.	Signal	Pin No.	Signal
1	Key 1 (+ / up)	4	Key 4 (Select)
2	Key 2 (- / down)	5	Key 5 (Power)
3	Key 3 (Menu)	6	Ground

DVI-1 (DVI-D) connector

Connector

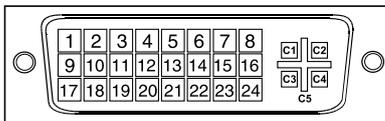


Pin configuration

Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data 2-	16	Hot Plug Detect
2	T.M.D.S. Data 2+	17	T.M.D.S. Data0-
3	T.M.D.S. Data2/4 Shield	18	T.M.D.S. Data0+
4	-	19	T.M.D.S. Data0/5 Shield
5	-	20	-
6	DDC Clock (SCL)	21	-
7	DDC Data (SDA)	22	T.M.D.S. Clock shield
8	-	23	T.M.D.S. Clock+
9	T.M.D.S. Data1-	24	T.M.D.S. Clock-
10	T.M.D.S. Data1+	C1	-
11	T.M.D.S. Data1/3 Shield	C2	-
12	-	C3	-
13	-	C4	-
14	+5V Power	C5	-
15	Ground (return for +5V, Hsync and Vsync)		

DVI-2 / RGB-2 (DVI-I) connector

Connector

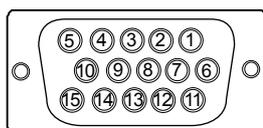


Pin configuration

Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data 2-	16	Hot Plug Detect
2	T.M.D.S. Data 2+	17	T.M.D.S. Data0-
3	T.M.D.S. Data2/4 Shield	18	T.M.D.S. Data0+
4	-	19	T.M.D.S. Data0/5 Shield
5	-	20	-
6	DDC Clock (SCL)	21	-
7	DDC Data (SDA)	22	T.M.D.S. Clock shield
8	Analog Vertical Sync	23	T.M.D.S. Clock+
9	T.M.D.S. Data1-	24	T.M.D.S. Clock-
10	T.M.D.S. Data1+	C1	Analog Red
11	T.M.D.S. Data1/3 Shield	C2	Analog Green
12	-	C3	Analog Blue
13	-	C4	Analog Horizontal Sync
14	+5V Power	C5	Analog Ground
15	Ground (return for +5V, Hsync and Vsync)		

VGA connector (D-Sub mini 15-pin)

Connector

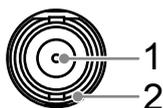


Pin configuration

Pin No.	Signal	Pin No.	Signal
1	Red Video	9	-
2	Green Video	10	Ground
3	Blue Video	11	Ground
4	Ground	12	Data (SDA)
5	-	13	H.Sync
6	Red Video Ground	14	V.Sync
7	Green Video Ground	15	Clock (SCL)
8	Blue Video Ground		

CVBS connector (BNC)

Connector



Pin configuration

Pin No.	Signal
1	CVBS_P
2	CVBS_N

How to replace the DC power fuse

Attention

- Be sure to follow the procedure when replacing the fuse. Note that EIZO Corporation assumes no responsibility for any damage caused due to incorrect handling of this product.
- Always use the following fuse.
 - Manufacturer: Littelfuse
 - Mode No.: 0217010.MXP
 - Rating: 250 V / 10 A
 - Shape: Tube type
 - Size: 5 mm x 20 mm
 - Type: Fast-blow

1. Disconnect the AC power cord and DC power terminal block.

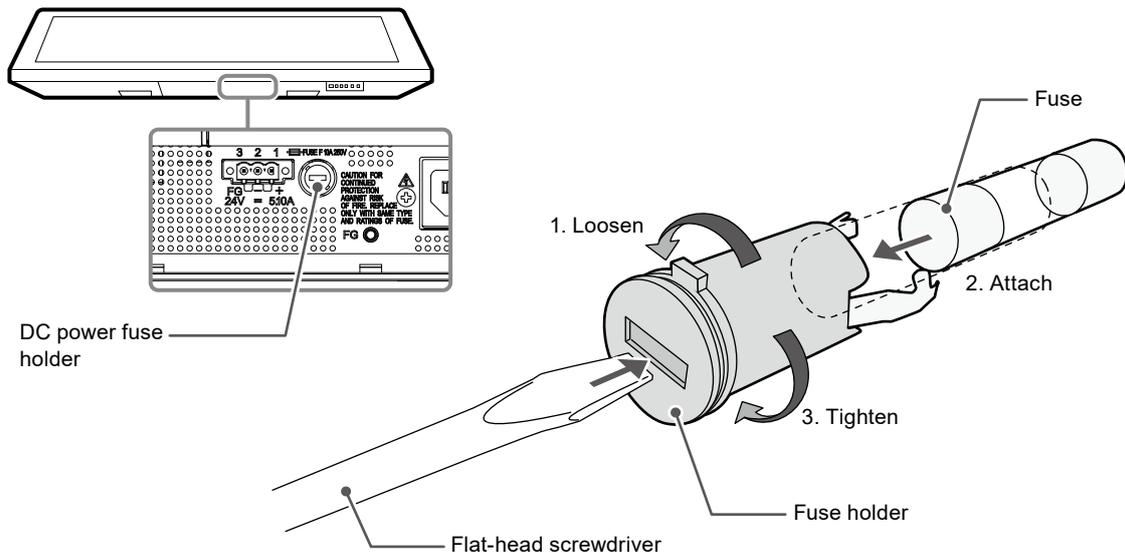
2. Remove the fuse holder.

Hold down the tip of the fuse holder using a flat-head screwdriver, and rotate it counterclockwise.

3. Attach a new fuse to the fuse holder.

4. Install the fuse holder.

Insert the fuse holder into the monitor. Hold down the tip of the fuse holder using a flat-head screwdriver, and rotate it clockwise.



Note

- After replacement, connect the DC power terminal block with the AC power cord disconnected, and check that the monitor works normally.

How to replace the cooling fan

Attention

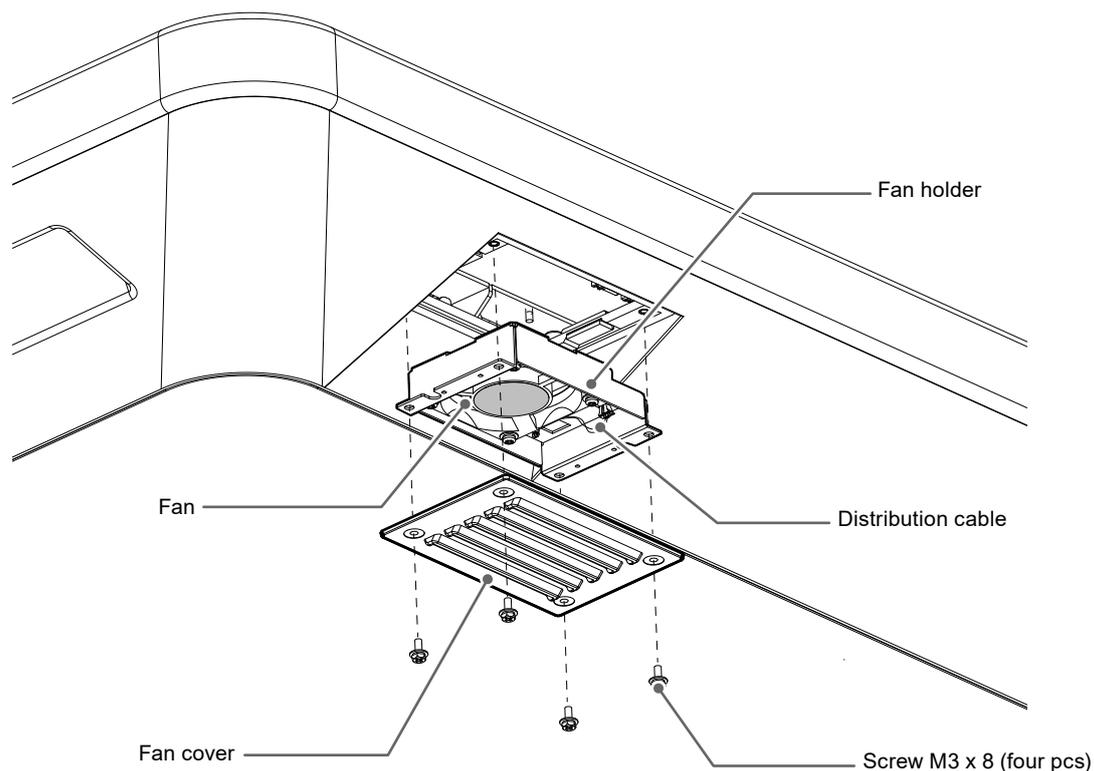
- Be sure to follow the procedure when replacing the fan. Note that EIZO Corporation assumes no responsibility for any damage caused due to incorrect handling of this product.

Note

- Please contact your local EIZO representative for replacement parts.

1. Disconnect the AC power cord and DC power terminal block.

2. Remove the fan cover and fan holder.

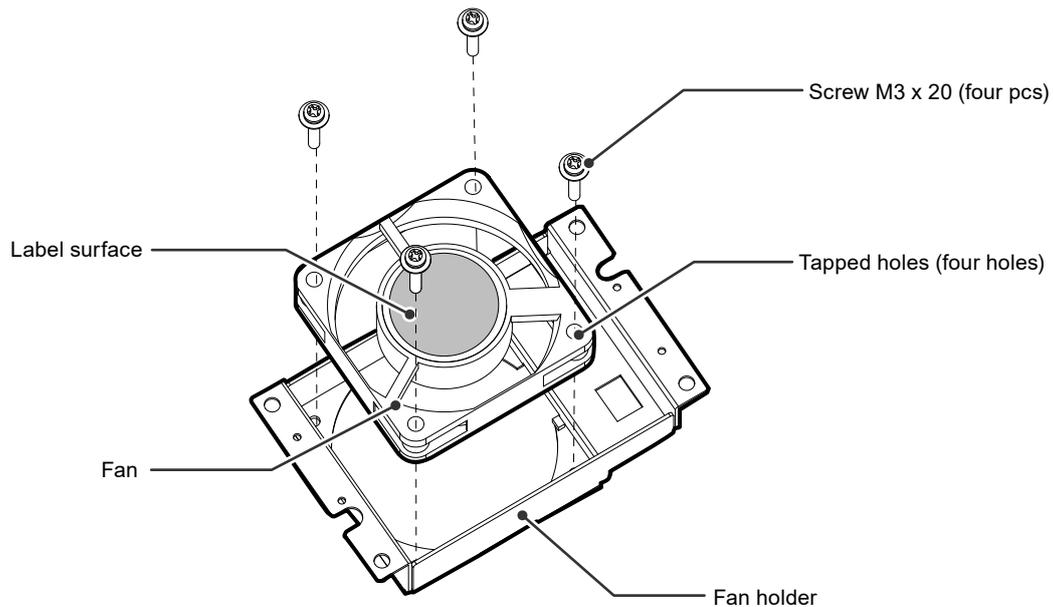


1. Remove the screws (four pcs) that secure the cover.
Use a box-end wrench with 3 mm nominal diameter (with offset) to remove the screws.
2. Remove the cover.
3. Disconnect the distribution cable connected to the monitor.
4. Remove the holder.
The holder is temporarily attached to the monitor using a face fastener.

Attention

- Hold the connector when removing the distribution cable. Pulling on the cable may damage the connector.

3. Remove the fan from the fan holder.



1. Remove the screws (four pcs) that secure the fan.
Use a Phillips screwdriver to remove the screws.
2. Remove the fan.

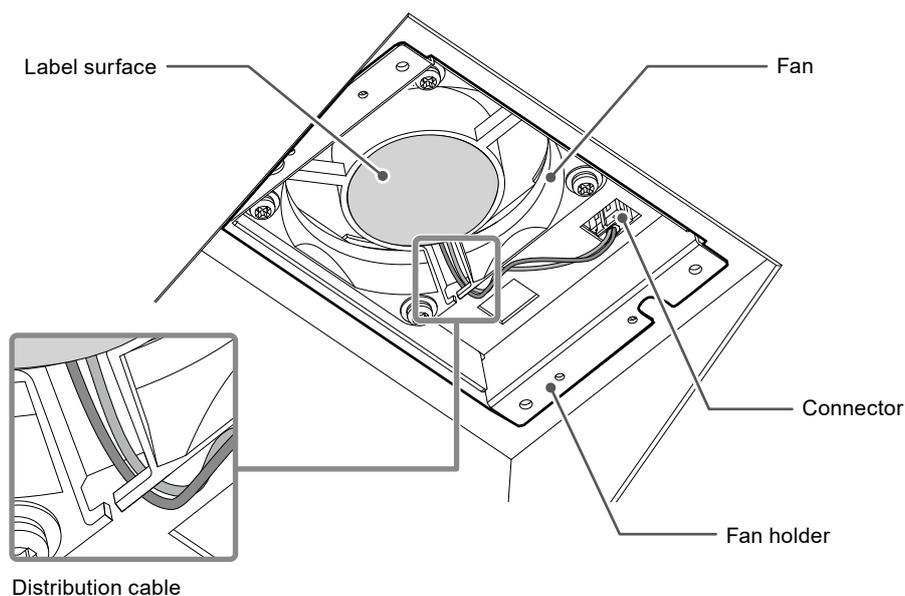
4. Install a new fan in the fan holder.

Attention

- Handle the fan with care. Dropping or subjecting the fan to physical shocks may damage it.
 - Pay attention to the orientation of the fan when installing it.
-

1. Fix the fan to the folder using the screws removed in step 3 (page 40) (recommended torque: $0.78 \pm 0.2 \text{ N}\cdot\text{m}$). Install the fan so that its label surface is oriented outwards.

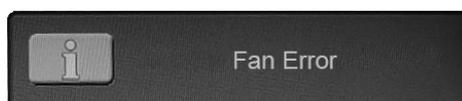
5. Install the fan holder and fan cover.



1. Install the holder on the monitor.
2. Connect the distribution cable to the monitor. Securely connect the connector to the monitor.
3. Hook the distribution cable into the groove of the fan.
4. Fix the cover to the monitor using the screws removed in step 2 (page 39).

Note

- After replacement, perform the following procedure to check the operation.
 1. Check that the fan is rotating.
 2. Confirm that the "Fan Error" message is not displayed on the screen.



Periodical check of buzzer alarm

- The buzzer installed in this monitor can be activated to emit warning beeps by using monitor control communication.
- Periodically check to ensure that the buzzer warning beeps work. Use monitor control communication to check the buzzer.

Note

- For details on monitor control communication, contact your local EIZO representative.



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